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| GOLDEN PIXIE GAMING |
| Forest Ambush TD |
| **Game Design Document** |
| Version #1.2  All work Copyright © 2021 by Golden Pixie Gaming.  All rights reserved. |
| **[Philip Henderson]** |
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| October 21 2022 |

**Table of Contents**

[Your Table of Contents should go here. Make sure that your document’s sections are hyperlinked to their corresponding pages.]

Contents

[Version History 3](#_Toc117207299)

[Game Overview 4](#_Toc117207300)

[Game Play Mechanics 4](#_Toc117207301)

[Camera 4](#_Toc117207302)

[Controls 4](#_Toc117207303)

[Saving and Loading 5](#_Toc117207304)

[Interface Sketch 5](#_Toc117207305)

[Game World 6](#_Toc117207306)

[Levels 6](#_Toc117207307)

[Game Progression 6](#_Toc117207308)

[Characters 7](#_Toc117207309)

[Non-player Characters 7](#_Toc117207310)

[Enemies 7](#_Toc117207311)

[Weapons 7](#_Toc117207312)

[Abilities 7](#_Toc117207313)

[Script 8](#_Toc117207314)

[Scoring 8](#_Toc117207315)

[Sound Index 8](#_Toc117207316)

[Story Index 9](#_Toc117207317)

[Art / Multimedia Index 9](#_Toc117207318)

[Design Notes 10](#_Toc117207319)

[Future Features 10](#_Toc117207320)

# Version History

[This is where you keep track of the detailed changes made to your document throughout the course of development.]

Version 1.0

* Initial Document Design

Version 1.2

* Added actual assets
* Added sounds/music
* Changed Enemies to Humans

## Game Overview

* *You, Wizard Golden Wand, are tasked to protect the Pixie kingdom from the dastardly Orcs who are intent on the Destruction of the forest.*
* *Stop the Enemies from traversing the forest and reaching the pixie kingdom.*
* *Use different types of pixie towers to convert the enemies to woodland creatures or fairy Dust*

## Game Play Mechanics

*Environment:*

* *Spawning at a Orc Camp or Orc Boats on a shoreline,*
* *Enemies travel along a path, attempting to reach the Pixie Kingdom, reducing the kingdoms and thus the players overall health.*
* *The player must build towers along the sides of the path to prevent the orcs from reaching the Pixie Kingdom.*
* *Different levels will have different orc starting areas, indicating the increasing difficulty*

*Game:*

* *This Game will be a Rogue Like style game*
* *You will receive gems to purchase in game skins*
* *The higher your score in the third level, the higher number of gems you will receive*
* *You will not receive any gems for the first 2 levels as they are more like tutorial levels and help you gain supplies for final level set up.*
* *If the Kingdoms Health drops to zero, then the game Is over.*
* *The number of enemies that will spawn will increase incrementally as the levels progress.*
* *Tower types will range from Fire, Water and Ice*
* *The Last/Third Level is endless, survive longer to receive a higher score, if you can!*

## Camera

* 2D Birds Eye View

## Controls

* Touch Controls in Unity
* Drag towers onto the map to place them

## Saving and Loading

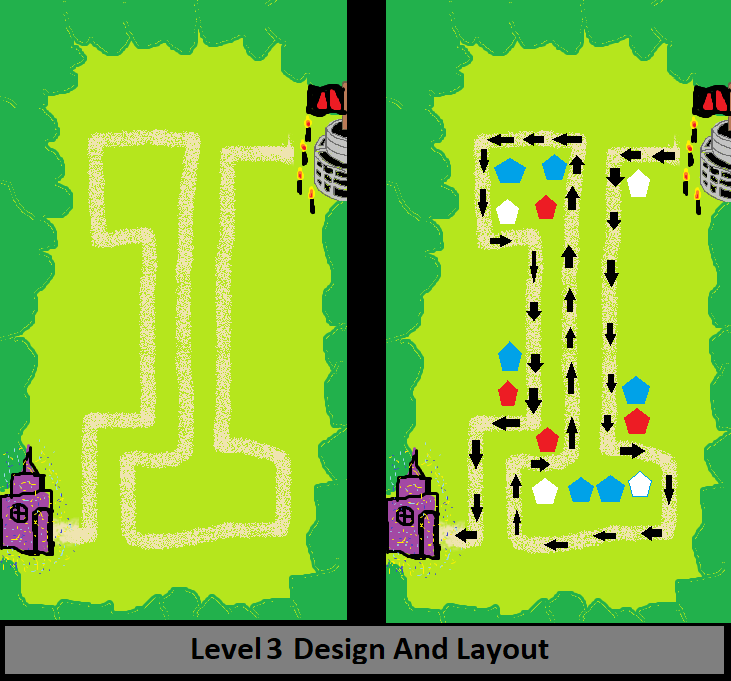
* *No Saving*
  + *Rogue Like*
  + *acquire out of game gems for skins(implementing later)*
* *Loading*
  + *At app start, show company logo*
  + *Before game starts, show an in-game tip, wait for screen touch to start*
  + *After game over screen, show an in-game tip for 1 second before displaying the main menu*

## Interface Sketch

*Sketches:*

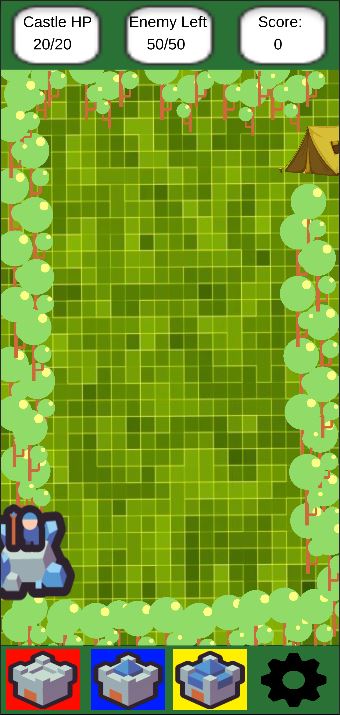
*A picture containing chart

Description automatically generatedA picture containing diagram

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*Screen Shots: Menu Screen:*

*A picture containing chart

Description automatically generated  ![Graphical user interface

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generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RD+RXhpZgAATU0AKgAAAAgABAE7AAIAAAARAAAISodpAAQAAAABAAAIXJydAAEAAAAiAAAQ1OocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFBoaWxpcCBIZW5kZXJzb24AAAAFkAMAAgAAABQAABCqkAQAAgAAABQAABC+kpEAAgAAAAM2MQAAkpIAAgAAAAM2MQAA6hwABwAACAwAAAieAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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*V1.1 V1.2 V1.1 V1.2*

## Game World

* *This game is designed to be cute and cuddly. Not killing the enemies, but converting to small, nice creatures or Pixie Dust*
* *Mystical forest area with a few woodland animals, mushrooms and plants.*
* *Game area is walled in by forest with only two openings in the forest walls, in which the attackers path starts and finishes with the orc camp and the pixie kingdom*
* *With a big open field area in the middle that the attackers path whines through*

## Levels

*Each Level will have the same basic template with different paths.*

*Level 1 – Enemies will Spawn for 30 secs*

* *Has a basic S Pattern for a path with the enemy starting location at the top right and the kingdom at the bottom right.*
* *The orc spawn will be a small camp*
* *Difficulty multiplier: 1.0x*

*Level 2 – Enemies will Spawn for 1 min*

* *Has a Vertical Pattern, enemies will travel up and down on the path to reach the kingdom.*
* *The orc spawn will be a shoreline with an orc boat*
* *Difficulty Multiplier: 1.5x*

*Level3 – Endless/ Enemies will Spawn endlessly till player dies*

* *Has a Double boot Shaped Pattern, allowing 1 tower to be placed within the boot shaped path*
* *The orcs spawn will be an orc castle*
* *Difficulty Multiplier: 2.0x (Increases by .5 every 1 min)*

## Game Progression

* Progress Levels by surviving the time limits.
* Last level is attempting a to get high score

## Characters

* *Wizard Gold Wand – (Sort of) Player Character*

## Non-player Characters

* *Twilla - Pixie High Queen – Head of the Pixie Kingdom*
* *Astro – Head Advisor – To the Queen*
* *Towns Fork – Complain about the Human invasions getting worse*

## Enemies

* *Sir Smelly-Weather – Royal Commander – Leader of the Human army*
* *Human Army – Stead Fast and March Forth*

## Weapons

*Towers:*

* *Ice: Low Damage (AOE)*
  + *Attack Speed: Fast*
  + *Slows Down Enemies*
  + *Turns Enemies to White Pixie Dust*
  + *Turns Enemies into small creature (small chance (Rabbit))*
* *Fire: Medium Damage (Single Target)*
  + *Attack Speed: Medium*
  + *Additional Damage every second for 3 seconds*
  + *Turns Enemies to Red Pixie Dust*
  + *Turns Enemies into small creature (small chance (Fox))*
* *Wind: Very High Damage (Single Target)*
  + *Attack Speed: Very Slow*
  + *Turns Enemies to Blue Pixie Dust*
  + *Turns Enemies into small creature (small chance (Bird))*

## Abilities

* *Powers:*
  + *Earthquake:*
    - *Inflicting damage to enemies walking in area while causing the ground to shake*
    - *Slows enemies in area*
    - *Small earth-shattering animation*
  + *Water Blast:*
    - *Inflicts damage while causing the enemies to be temporarily pushed backwards on the path.*
    - *Plays a Blue water blast animation*
  + *Magic Wall:*
    - *Creates a magic barrier to temporarily stop all enemies from moving forward past the wall*

## Script

Internal Document script – “BackgroundBehavour”

Button Script – “Button”

Follow Path Script – “PathFollowScript”

Spawn Enemy Script – “SpawnEnemy”

## Scoring

*Small Enemies – 1 point*

*Medium Enemies – 10 points*

*Large Enemies – 20 points*

*Boss – 100 points*

*Level 1 – Seconds* ***left*** *\* Points from Enemies*

*Level 2 – Seconds* ***left*** *\* Points from Enemies*

*Level 3- Seconds \* Points from Enemies*

## Sound Index

Asset Store:

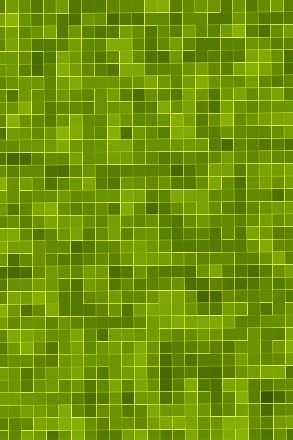
* **RPG Essentials Free**
* **Free Game Music Collection**

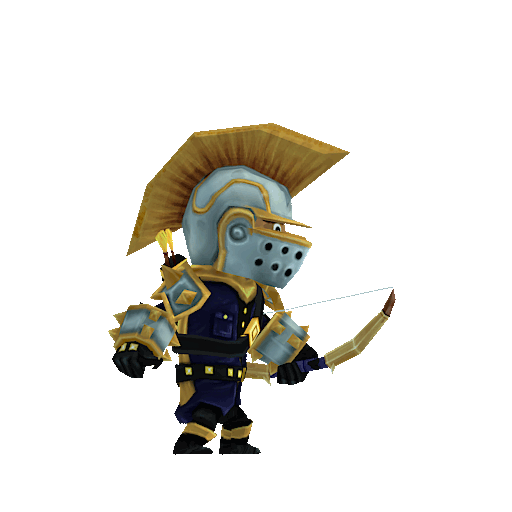
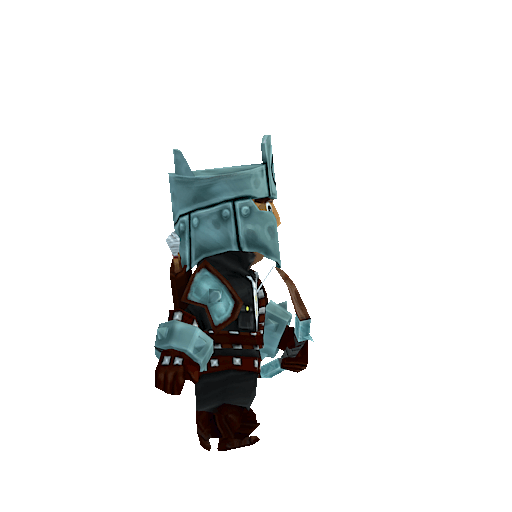
## Story Index

*You, Wizard Golden Wand, are tasked to protect the Pixie kingdom from the dastardly Orcs who are intent on the Destruction of the forest. The Pixie High Queen Twilla who is deeply connected to the forest and its inhabitants, is crippled by its destruction. Help to Defend and replenish the forests nature splendor to what it once was.*

*Stop the Enemies from traversing the forest and reaching the pixie kingdom.*

## Art / Multimedia Index

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## Design Notes

*Changed the Orcs to Humans*

*Added Music and Sound Effects*

## Future Features

*Adding sprite animations and more enemies*

*Still need to fix functionality for spawning enemies*

*Need to put the enemies back into the pool so they can repeat the path*

*Thinking about implementing a Tile Map instead*